

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An apparatus for panning and tilting an optical input to an objective of a camera; and the apparatus comprising:

a panning mirror rotationally coupled to the camera for bending the optical input to align with an optical axis of the objective, and for panning the optical input to the objective of the camera about the optical axis; and

a tilting mirror radially displaced from the panning mirror about the optical axis, and rotationally coupled to the camera for rotation concentric with the panning mirror about the optical axis, and the tilting mirror optically coupled with the panning mirror and tilting toward and away from the panning mirror about an axis substantially perpendicular to a plane defined by the optical path, to tilt the optical input in selectable amounts.

Claim 2 (previously presented): The apparatus of claim 1, further comprising:

- a planetary linkage coupling the panning mirror and the tilting mirror, and including:
 - a mirror wheel rotatable about the optical axis, and the panning mirror affixed to the mirror wheel and the tilting mirror tiltably affixed to the mirror wheel both for rotation about the optical axis;
 - a guide wheel rotatable about the optical axis; and
 - a planetary member mechanically coupled to both the guide wheel together with the mirror wheel such that a relative rotation there between produces a rotation of the planetary member and the planetary

member further coupled to the tilt mirror such that the rotation of the planetary member effects the tilting of the tilt mirror.

Claim 3 (previously presented): The apparatus of claim 1, wherein the panning mirror couples to the camera for panning the optical input throughout and entire 360 degrees about the optical axis.

Claim 4 (currently amended): A method for panning and tilting an optical input to an objective of a camera; and the method comprising:

- positioning a panning mirror intersecting an optical axis of the optical input at an angle and the tilting mirror radially displaced from the optical axis of the input and optically coupled with the panning mirror;
- rotating the panning mirror together with the tilting mirror about the optical axis of the optical input to the camera to effect a panning of the optical input to the objective of the camera; and
- tilting the tilting mirror with respect to toward and away from the panning mirror about an axis substantially perpendicular to a plane defined by the optical path to effect a tilting of the optical input to the objective of the camera.

Claim 5 (previously presented): The method of claim 4, further comprising:

- coupling the panning mirror, tilting mirror and camera to one another with a planetary linkage having a mirror wheel and a guide wheel independently rotatable about the optical axis of the camera; and
- converting a relative rotation between the mirror wheel and guide wheel into a tilting of the tilt mirror.

Claim 6 (currently amended): A means for panning and tilting an optical input to an objective of a camera; and the means comprising:

- means for positioning a panning mirror intersecting an optical axis of the optical input at an angle and the tilting mirror radially displaced from the optical axis of the input and optically coupled with the panning mirror;
- means for rotating the panning mirror together with the tilting mirror about the optical axis of the optical input to the camera to effect a panning of the optical input to the objective of the camera; and
- means for tilting the tilting mirror with respect to toward and away from the panning mirror about an axis substantially perpendicular to a plane defined by the optical path to effect a tilting of the optical input to the objective of the camera.

Claim 7 (previously presented): The means of claim 6 further comprising:

- means for coupling the panning mirror, tilting mirror and camera to one another with a planetary linkage having a mirror wheel and a guide wheel independently rotatable about the optical axis of the camera; and
- means for converting a relative rotation between the mirror wheel and guide wheel into a tilting of the tilt mirror.